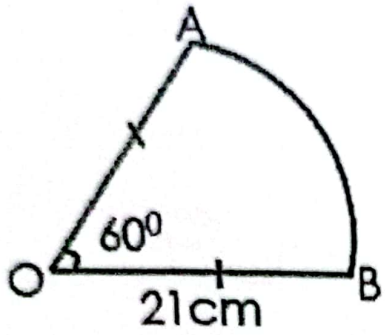
26(a) Calculate the perimeter of the figure below.



$P = \frac{1}{8} \times 2\pi r + d$

$= \frac{1}{8} \times \frac{22}{7} \times 2 \times 21\text{cm} + 21\text{cm}$

$= \frac{33\text{cm} + 21\text{cm}}{4}$

$= \frac{54\text{cm}}{4}$

$= 27\text{cm}$

$P =$

$=$

b) Calculate the length of arc AB.

$L = \frac{1}{4} \times 2\pi r + r$

$= \frac{1}{4} \times 2 \times \frac{22}{7} \times \frac{21}{2}\text{cm} + \frac{21\text{cm}}{2}$

$= \frac{33}{2}\text{cm} + \frac{21\text{cm}}{2}$

$L = \frac{54\text{cm}}{2}$

$= 27\text{cm}$

27(a) Solve $2(2p - 5) - 3(1 - p) = -6$.

$2(2p - 5) - 3(1 - p) = -6$

$2 \times 2p - 2 \times 5 - 3 \times 1 + 3 \times p = -6$

$4p - 10 - 3 + 3p = -6$